

Title (en)

TURBOPUMP, PARTICULARLY FOR SUPPLYING ROCKET ENGINES WITH GAS

Title (de)

TURBOPUMPE, IM BESONDEREN ZUR VERSORGUNG VON RAKETENMOTOREN MIT GAS

Title (fr)

TURBOPOMPE, EN PARTICULIER POUR L'ALIMENTATION DE MOTEURS DE FUSEE

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Application

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Abstract (en)

[origin: WO2012089943A1] The invention relates to the field of turbopumps, and particularly turbopumps for supplying low-thrust rocket engines with gas. A turbopump (301) according to the invention comprises a pump (303), a turbine (304), and a common rotatable shaft (302) connected to said pump (303) and to said turbine (304). A first and second bearing (305, 306), which are nearer to the pump (303) and to the turbine (304), respectively, support the common shaft (302). Said second bearing (306) is a hydrodynamic bearing connected to a gas-supply source, and the turbopump (301) also comprises at least one dynamic seal (311) around the shaft (302), inserted between said first and second bearings (305, 306).

IPC 8 full level

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